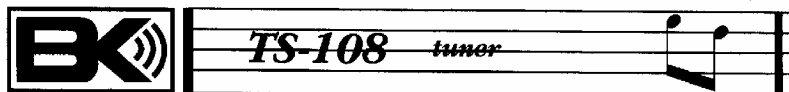


**B&K COMPONENTS, LTD.**

# ***TS-108***

***FM Stereo Tuner***

***Operation Manual***



# TS-108 Owner's Manual

## Introduction

Thank you for purchasing a B&K Components Ltd. TS-108 Stereo FM Tuner. The TS-108 has many useful features and includes the same high quality components that are found in all B&K Components, Ltd. products. The TS-108 is a digitally tuned FM stereo tuner with 8 programmable presets. Each of the presets allows you to store a station frequency and reception mode. Each preset stores the selectivity (WIDE or NARROW), sensitivity (Dx or LOCAL) and STEREO/MONO mode. With these features, the TS-108 can be set for optimum reception and then stored in 1 of the 8 available preset locations. To reduce noise, goldplated input and output connectors are used. The chassis, constructed of heavy gauge steel, and a 3/16" aluminium faceplate provide maximum structural integrity. The TS-108 is manufactured for dependability and will provide many years of listening pleasure.

We encourage you to read this operation manual thoroughly to familiarize yourself with the TS-108 FM Tuner.

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- Model TS-108
- Serial # .....
- Date of Purchase .....
- B&K Components, Ltd.
- 1971 Abbott Road
- Buffalo, NY 14218-3241
- (716) 822-8488 (716) 822-8306 Fax



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## Safety Precautions

1. Read all instructions.
2. Keep all units well ventilated.
3. For extended periods of nonuse, unplug the unit from the power source.
4. Do not open the unit, there are no user serviceable parts inside. Contact your dealer or authorized service center for customer assistance.
5. Keep the unit away from liquids and direct sunlight.
6. Secure all connections and power cords. Keep power cords out of travel paths.

## Specifications of the TS-108 FM Tuner

- Frequency Response ..... 30 Hz-15 kHz  $\pm 1.5$  dB
- Measured with 400 Hz, 60% modulation :
- Capture Ratio ..... 1.5 dB
- Usable Sensitivity ..... 10 dBf IHF
- Sensitivity - Mono /Stereo ..... 15/35 dBf
- Distortion (THD+N) ..... .25 % Mono
- Alt. Channel Selectivity - Wide /Narrow ..... 55/70 dB
- Output Level ..... 300 mV
- S/N (A-Weighted) ..... 75 dB
- Specifications subject to change without notice.



**CAUTION:**

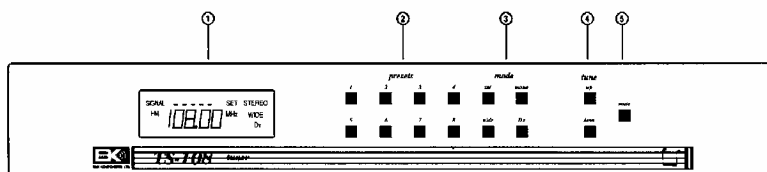
RISK OF ELECTRIC SHOCK  
DO NOT OPEN

**ATTENTION:** RISQUE DE CHOC ELECTRIQUE  
NE PAS OUVRI

**WARNING:** TO PREVENT FIRE OR SHOCK HAZARD, DO NOT  
EXPOSE THIS UNIT TO RAIN OR MOISTURE.



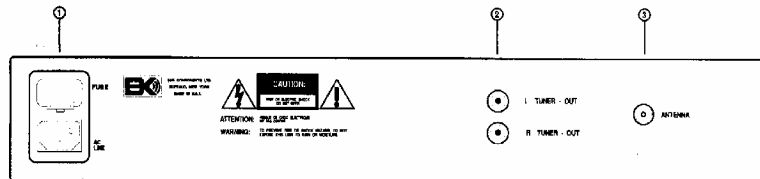
# TS-108 Front Panel Operation



1. **FLUORESCENT DISPLAY** - The display indicates the currently tuned frequency, received signal level and reception mode. The reception mode indicators include STEREO, WIDE and Dx which are described below. The display is off when the TS-108 is in the MUTE mode (see MUTE below).
2. **PRESETS** - Each of the 8 memory preset buttons allows you to store a station frequency and a reception mode. When storing a preset, the STEREO, WIDE and Dx settings are saved also. This allows you to store your favorite stations along with the optimum settings for each station's best reception.
3. **MODE** - There are 3 on/off buttons that allow you to control the reception mode of the TS-108. These buttons are described individually below and are used to adjust for the best reception of a station. When saving a station as a preset, the settings of these buttons are also saved in that preset. Pushing one of these buttons toggles the associated function on or off, as indicated in the fluorescent display.
  - WIDE** This button is used to switch the selectivity between WIDE and NARROW. In the WIDE setting, a wide bandwidth is used to achieve maximum reception and dynamic range. In the NARROW setting (WIDE display is off), the bandwidth is reduced to suppress interference from other stations. WIDE is recommended for strong stations and stations where interference is not a problem.
  - Dx** This button is used to switch the sensitivity between Dx and LOCAL. In the Dx setting, the gain is high to achieve maximum signal strength. The power gain is lower in the LOCAL setting (Dx display is off) which is recommended for extremely strong stations that may cause problems with distortion.
  - MONO** This button controls whether a station is received in MONO or STEREO, and also affects the stepping rate when adjusting the tuning frequency up and down. STEREO produces a slow rate and MONO produces a fast rate. MONO can be useful for clearing up the reception of a weak stereo signal.
  - SET** Push this button and the SET indicator in the display will begin to flash to show that the TS-108 is ready to receive a memory preset. Pushing one of the PRESET buttons (within the next 5 seconds) stores the current station frequency and reception mode in that memory preset. The preset may be recalled later by simply pushing the corresponding preset button.
4. **TUNE** - Pushing these buttons changes the tuning frequency in single steps of 50 kHz. UP increases frequency and DOWN decreases frequency. Holding the button in will continue stepping until the button is released. Stepping beyond the tuning range will cause the frequency to "wrap around" to the highest/lowest frequency. The stepping rate is determined by the STEREO/MONO setting as described under MONO above.
5. **MUTE** - This button is used to toggle the TS-108 operation between active and standby (ON or OFF). While in the off position, MUTE serves a dual purpose: 1) blank the display and mute the TS-108 outputs. 2) place the TS-108 in a standby mode for proper preset memory retention in the absence of AC power. If after being placed in the standby mode there is a loss of AC power, the TS-108 will retain its memory presets for up to 48 hours.



## TS-108 Rear Panel Operation



1. **AC POWER MODULE** - This is the main AC power connection to the TS-108. AC power must be applied to the TS-108 at all times, as this will retain the memory presets and insures proper sonic performance. A fuse drawer within this module contains a 3AG FAST BLOW type fuse rated for 0.5 A. This fuse should only be replaced by the same type and current rating. Be sure that the voltage applied to the TS-108 corresponds to the rating listed on the rear panel.
2. **OUTPUTS** - These goldplated (RCA) connectors are the line level outputs that are to be connected to your preamplifier (TUNER) input connectors. The output signal level is approximately .5 V rms for a 100% modulated 400 Hz RF signal.
3. **RF INPUT** - This goldplated connector is the TS-108's 75 ohm unbalanced input connection that is to be attached to the antenna or RF source. The 5-segment signal level meter in the fluorescent display indicates the incoming RF signal level. The signal level meter is calibrated such that an incoming signal with a level greater than 56 dBf will illuminate all 5 segments while the TS-108 is in the WIDE mode.
  - Continuous hiss or buzzing during FM reception could be caused from the incoming signal being too weak. Use the correct antenna and orientate the antenna for best possible reception as indicated by the signal strength meter on the fluorescent display.
  - Occasional crackling noise during FM reception may be due to external noise interference that has nothing to do with the performance of the unit, for example: a motor or computer close to the antenna. Move the antenna as far from the source of the interference as possible.
  - Some cable companies have the ability to transmit the local FM signals over your TV cable network. This transmission is usually superior to the antenna. Consult your cable company for the availability of this option.
  - For extended periods of non-use such as vacations, please unplug the unit from the power source.



**B&K COMPONENTS, LTD.**

1971 Abbott Road, Buffalo, New York 14218-3241 NY: 716-822-8488 FAX: 716-822-8306

### **B&K Limited Warranty**

B&K Components, Ltd. (Warrantor) warrants your B&K equipment against all defects in material and workmanship for a period of three years from date of purchase. This warranty applies only to the original consumer purchaser and only to equipment used in normal residential use and service. Defective units will be either repaired or replaced (at the discretion of B&K Components, Ltd.) upon its being returned to the Warrantor at 1971 Abbott Rd., Buffalo, N.Y. 14218, postage prepaid, with a payment to cover the costs of return postage and handling.

This warranty shall not apply to any equipment which is found to have been improperly installed, fused, set-up, or used in any way not in accordance with instructions supplied with the equipment, or to have been modified, repaired or altered in any way without the expressed written consent of B&K Components, Ltd.

No implied warranty on this unit, created by state law, shall extend beyond the term of this warranty, and B&K Components, Ltd. shall not be liable for any incidental or consequential damages in the event of any defect in material or workmanship of the unit during the term of this warranty or thereafter. Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above exclusions may not apply to you.

No agent, representative, dealer or employee of the company has the authority to increase or alter the obligations or terms of this warranty.

This warranty gives you specific legal rights; you may also have other rights which vary from state to state.

**RETURN AUTHORIZATION:** Please note that the return of any product to B&K Components, Ltd. for the purpose of warranty repair, service or other reason requires a *Return Authorization (RA)* to be issued by B&K Components, Ltd. prior to return shipment. The RA may be requested by calling 1-800-543-5252 (NY: 716-822-8488) between 8:30 AM and 5:00 PM EST/EDT, Monday thru Friday. At that time, it will be requested that you provide the following information:

1. Your name and address
2. The model and serial number
3. The reason for which the unit is to be returned

Once your RA has been issued, you will immediately be provided with an RA number. We will then send an RA package to you by mail. Included in the RA package will be instructions on how to return your unit, multiple copies of the RA and a preprinted return shipping label to be attached to the unit.

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